

Scaled data based on original data using
LM-79-08 Approved Method: Electrical and Photometric Measurements of Solid-
State Lighting Products

Test Report Prepared for
Cooper Lighting Solutions
(formerly Eaton)

Brand: LUMARK

Report Number: P395086

Luminaire Tested: **LAS45S-T3-Switch-2**

Issue Date: 5/3/2020

Test Information

Test Method: LM-79-08
Report Number: P395086
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G3-2004-740-1)
Test Lab: INNOVATION CENTER
Issue Date: 5/3/2020
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: LUMARK
Catalog Number: LAS45S-T3-Switch-2
Description: AREA SITE SMALL HOUSING, TYPE III, WATTAGE SWITCH ON POSTION 2
Light Source: (168) 4000K CCT, 70 CRI LEDS
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 16810 lumens
Efficiency: N/A
Efficacy: 140.4 lumens/watt
Luminous Opening: Rectangular (W 0.71' x L: 0.6' x H: 0')
IES Classification: Type III - Medium - Semi-Cutoff
BUG Rating: B3 - U0 - G3

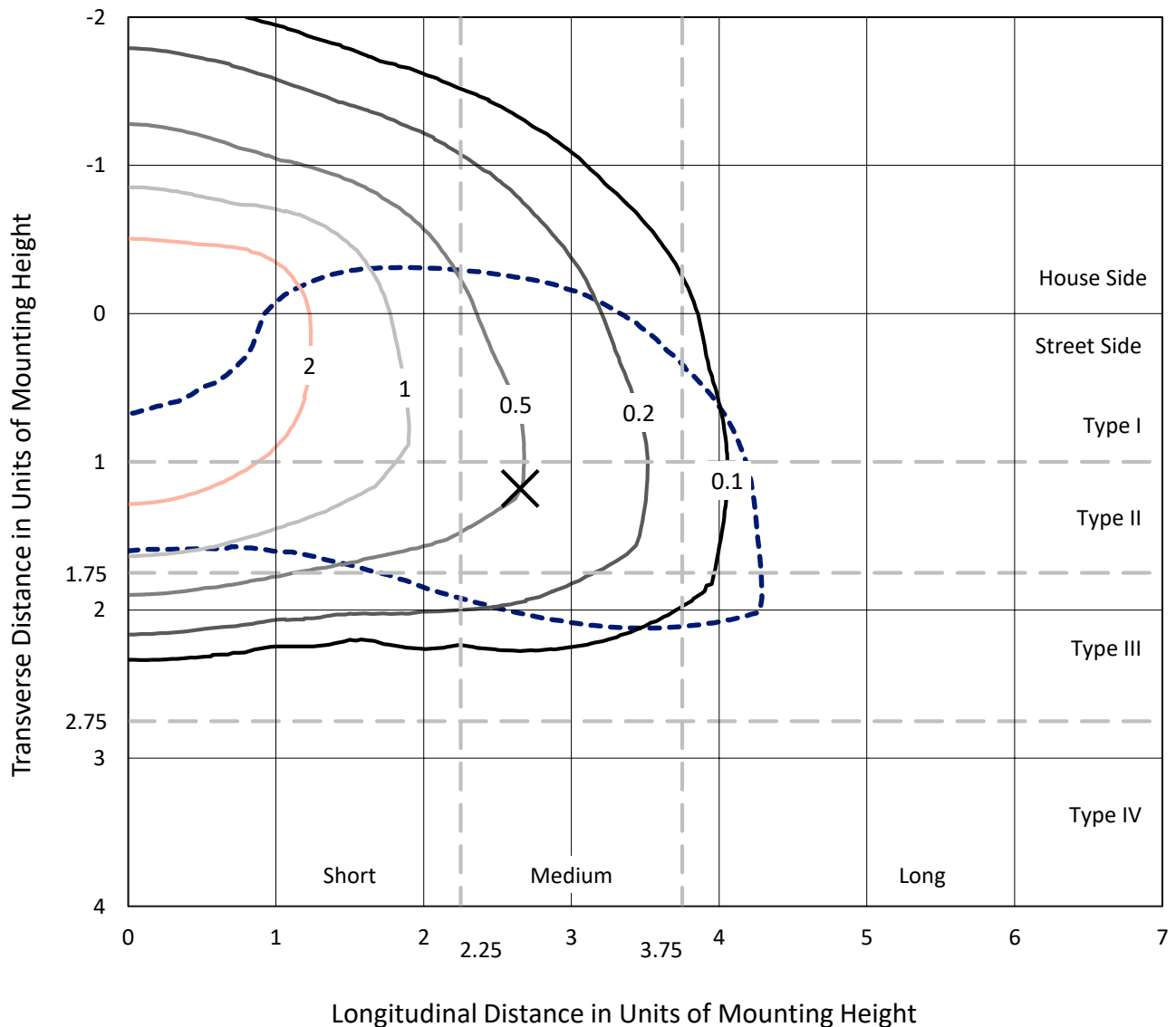
Input Watts (W): 119.7
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT



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Iso-Footcandle Lines of Horizontal Illumination

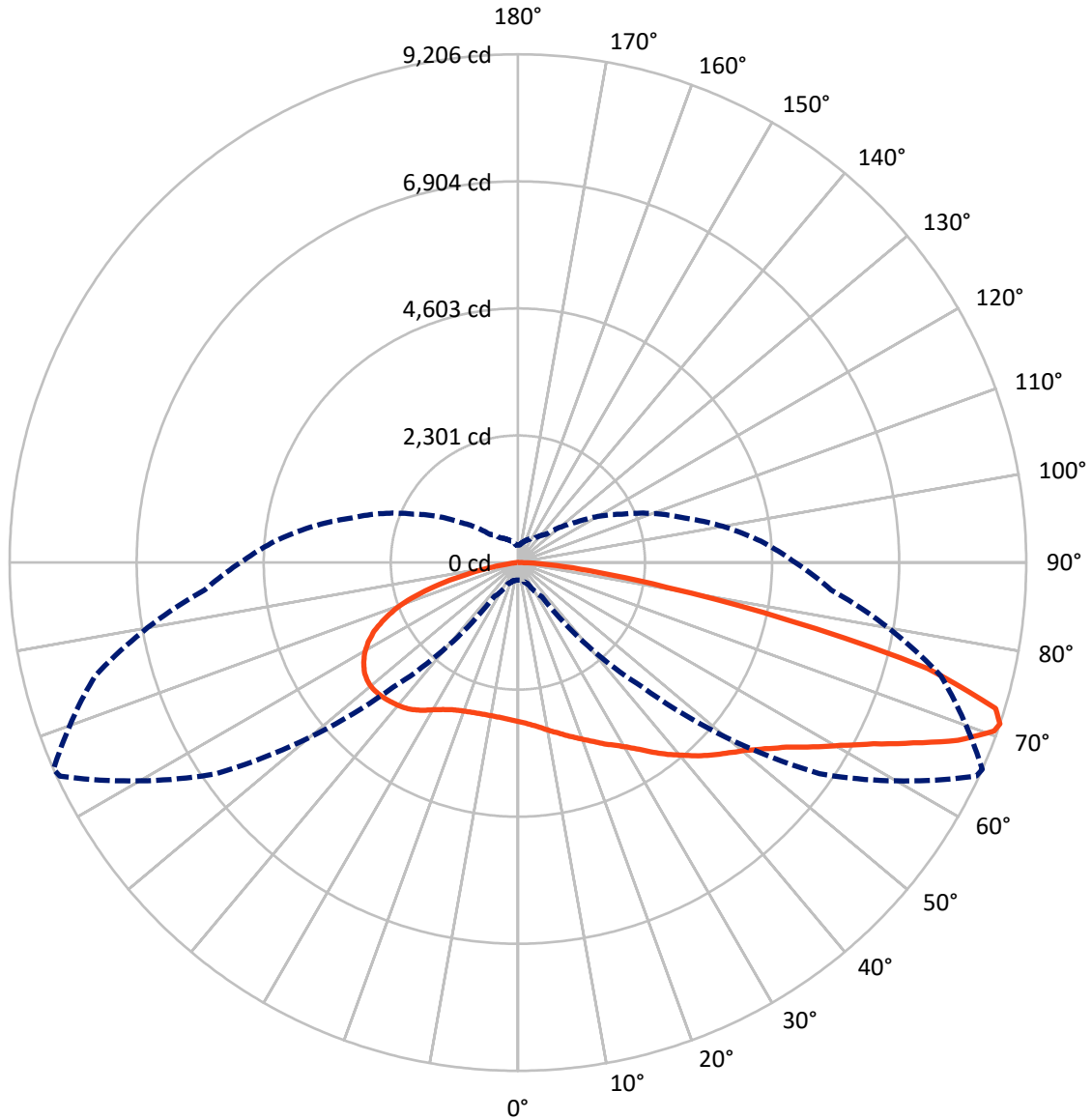
✕ Max cd
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 4.9 fc
 Type III - Medium - Semi-Cutoff

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Luminous Intensity Polar Plot



— Vertical Plane Through 66-Deg Lateral - - - Horizontal Cone Through 71-Deg Vertical

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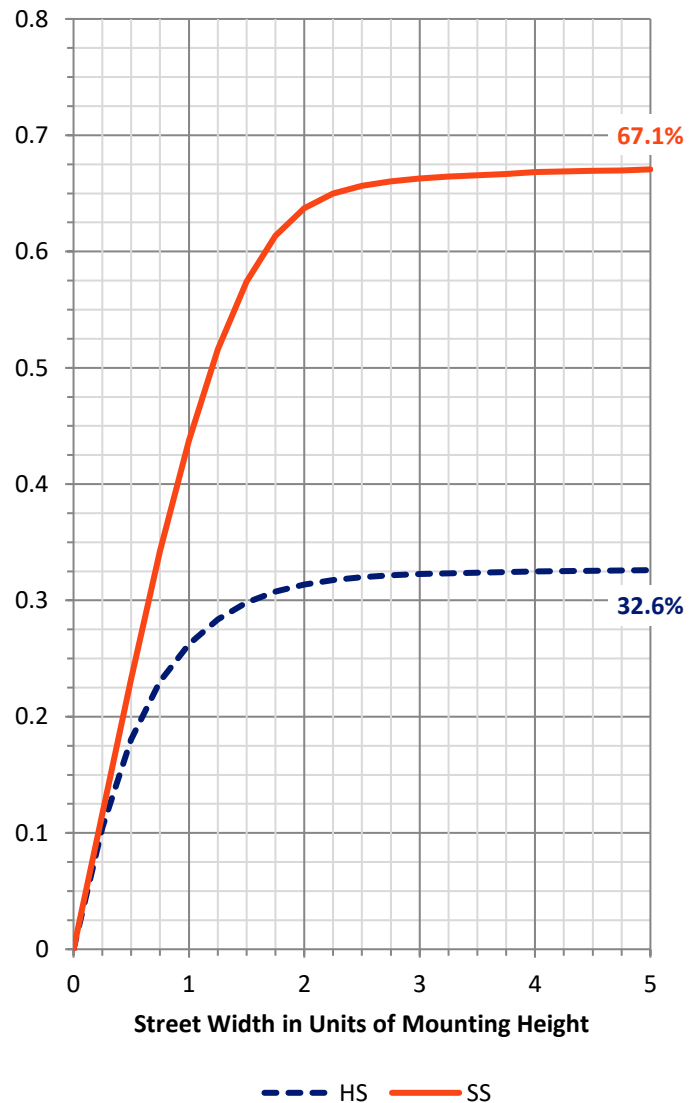
FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	5515.5	0.0	5515.5
	% Fixture	32.8	0.0	32.8
Street Side	Lumens	11294.5	0.0	11294.5
	% Fixture	67.2	0.0	67.2
Total	Lumens	16810.0	0.0	16810.0
	% Fixture	100.0	0.0	100.0

Coefficient of Utilization

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	276.5	1.6
10°-20°	836.1	5.0
20°-30°	1441.8	8.6
30°-40°	2165.5	12.9
40°-50°	2921.0	17.4
50°-60°	3576.6	21.3
60°-70°	3376.5	20.1
70°-80°	1954.1	11.6
80°-90°	261.9	1.6
90°-100°	0.0	0.0
100°-110°	0.0	0.0
110°-120°	0.0	0.0
120°-130°	0.0	0.0
130°-140°	0.0	0.0
140°-150°	0.0	0.0
150°-160°	0.0	0.0
160°-170°	0.0	0.0
170°-180°	0.0	0.0
0°-90°	16810.0	100.0
0°-180°	16810.0	100.0



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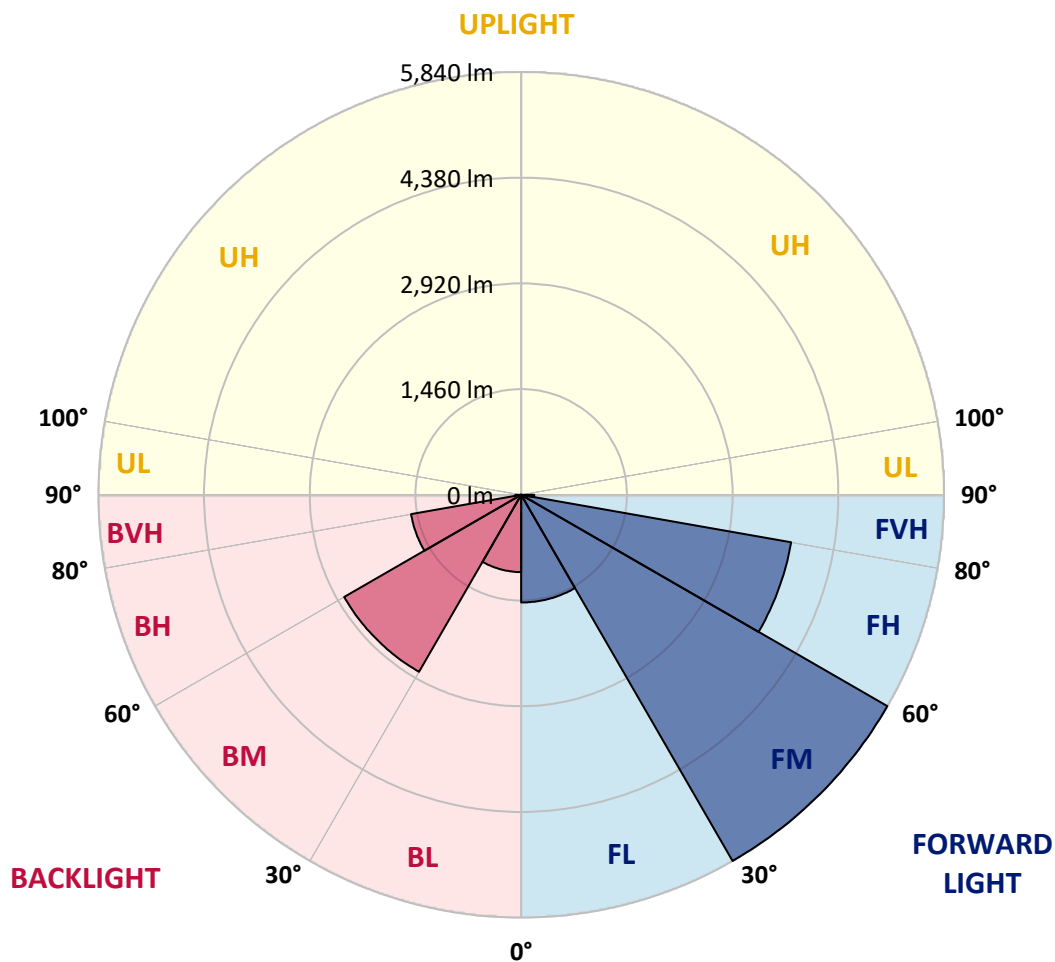
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	1487.4	8.8			
FM (30°-60°)	5839.8	34.7			
FH (60°-80°)	3786.5	22.5			G2/5000
FVH (80°-90°)	180.8	1.1			G2/225
BL (0°-30°)	1067.0	6.3	B3/2500		
BM (30°-60°)	2823.3	16.8	B3/5000		
BH (60°-80°)	1544.2	9.2	B3/2500		G3/2500
BVH (80°-90°)	81.1	0.5			G1/100
UL (90°-100°)	0.0	0.0		U0/0	
UH (100°-180°)	0.0	0.0		U0/0	

BUG Rating: B3-U0-G3

Type III Medium





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CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	45°	55°	65°	66°	75°	85°
0°	2882.4	2882.4	2882.4	2882.4	2882.4	2882.4	2882.4	2882.4	2882.4	2882.4	2882.4
2.5°	2956.4	2954.9	2955.9	2952.5	2943.8	2940.4	2931.7	2917.2	2916.7	2904.2	2896.0
5°	3033.2	3031.7	3027.4	3022.1	3012.9	3008.5	2992.1	2965.0	2962.6	2944.8	2923.0
7.5°	3104.2	3103.7	3102.7	3092.6	3082.9	3071.8	3055.9	3027.8	3020.1	2994.5	2961.2
10°	3188.7	3184.4	3181.0	3172.3	3162.6	3148.6	3124.9	3093.1	3092.6	3057.8	3010.5
12.5°	3271.8	3273.7	3267.0	3258.8	3239.9	3227.4	3200.8	3171.3	3160.7	3125.9	3069.9
15°	3364.1	3365.0	3353.4	3346.7	3334.6	3316.2	3280.0	3246.2	3244.7	3200.3	3137.5
17.5°	3474.7	3479.5	3465.5	3456.3	3436.0	3408.5	3370.3	3333.6	3329.3	3284.4	3216.7
20°	3597.4	3591.6	3588.7	3570.3	3551.5	3515.3	3473.7	3431.7	3423.0	3374.2	3304.2
22.5°	3725.9	3724.4	3723.9	3698.8	3678.1	3626.8	3573.7	3531.2	3521.5	3472.7	3396.4
25°	3890.6	3895.4	3871.8	3852.0	3818.1	3752.0	3693.0	3632.2	3638.0	3583.4	3510.4
27.5°	4097.8	4097.8	4086.7	4055.3	4000.7	3908.0	3829.3	3750.5	3747.6	3703.2	3627.3
30°	4367.9	4365.9	4357.7	4327.8	4233.1	4125.4	3983.3	3890.1	3875.1	3816.2	3778.0
32.5°	4509.9	4517.1	4531.1	4524.9	4481.4	4377.0	4191.5	4037.0	4030.7	3964.5	3924.4
35°	4600.7	4608.0	4626.8	4645.6	4621.0	4554.3	4390.1	4237.9	4220.0	4122.0	4086.7
37.5°	4714.7	4716.6	4727.8	4753.8	4751.9	4701.2	4575.6	4426.3	4409.4	4296.9	4268.4
40°	4851.9	4852.4	4861.1	4879.9	4879.4	4833.1	4754.8	4614.2	4584.8	4491.5	4448.5
42.5°	5010.8	4997.8	5009.9	5026.8	5026.8	4991.5	4934.0	4797.3	4786.7	4676.5	4617.6
45°	5156.7	5151.4	5159.1	5168.3	5171.2	5153.8	5103.1	4984.3	4967.8	4851.4	4769.3
47.5°	5305.0	5299.7	5291.5	5323.4	5336.9	5358.1	5306.5	5166.9	5149.0	4993.9	4896.8
50°	5416.1	5412.7	5413.2	5447.0	5503.1	5559.6	5547.5	5378.9	5344.1	5141.3	5010.8
52.5°	5411.8	5407.4	5419.0	5500.2	5630.6	5772.1	5813.2	5638.8	5603.5	5324.8	5117.1
55°	5165.4	5178.0	5237.9	5436.9	5692.4	6002.6	6140.7	5964.9	5899.7	5540.7	5247.5
57.5°	4737.9	4713.7	4850.0	5143.7	5601.6	6157.1	6472.1	6336.8	6299.2	5793.9	5371.7
60°	3987.2	3983.3	4227.3	4623.4	5310.8	6208.3	6823.3	6785.1	6718.5	6093.4	5483.7
62.5°	2958.8	2972.8	3158.8	3789.6	4773.2	6051.8	7174.5	7300.1	7231.0	6447.0	5591.5
65°	1747.2	1751.6	1952.5	2549.6	3866.0	5628.2	7415.0	7939.6	7874.4	6901.5	5697.3
67.5°	732.8	776.3	909.6	1307.2	2644.8	4847.1	7418.4	8585.0	8592.7	7422.3	5788.6
70°	359.4	364.7	419.3	533.8	1101.9	3776.6	6972.1	9104.3	9146.3	7872.0	5771.2
71°	318.8	319.3	342.5	423.6	757.0	3193.5	6665.3	9154.1	9205.8	7930.0	5693.4
72.5°	283.1	282.6	296.6	330.4	490.3	2237.6	5910.8	8972.9	9045.4	7757.5	5461.5
75°	227.5	229.0	239.1	257.5	341.0	1016.4	4301.2	7567.2	7666.2	6568.7	4551.4
77.5°	173.4	177.3	190.3	204.3	255.1	614.9	2725.0	5156.2	4991.5	4175.1	3259.7
80°	129.9	131.4	140.1	155.5	187.4	385.5	1530.3	2669.9	2739.9	2202.8	1765.6
82.5°	90.3	93.2	100.0	107.7	121.2	243.9	928.0	1445.3	1434.7	944.4	689.3
85°	53.6	56.0	58.5	64.2	69.1	124.6	513.5	727.5	709.1	243.9	144.9
87.5°	19.8	20.8	23.2	21.7	25.1	41.1	176.3	182.1	177.8	42.0	30.9
90°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0



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CANDELA DISTRIBUTION (continued):

	90°	95°	105°	115°	125°	135°	145°	155°	165°	175°	180°
0°	2882.4	2882.4	2882.4	2882.4	2882.4	2882.4	2882.4	2882.4	2882.4	2882.4	2882.4
2.5°	2886.3	2882.9	2869.9	2854.9	2841.9	2832.2	2820.6	2811.9	2809.0	2800.3	2802.3
5°	2905.1	2894.5	2862.6	2832.2	2800.8	2774.2	2750.6	2732.2	2718.7	2708.5	2716.3
7.5°	2935.6	2915.8	2868.9	2816.7	2766.0	2723.0	2685.4	2649.6	2625.0	2616.8	2611.9
10°	2978.1	2951.0	2881.5	2807.6	2736.6	2672.3	2609.5	2566.0	2524.5	2507.6	2497.9
12.5°	3031.7	2992.6	2900.8	2806.6	2711.0	2618.7	2525.0	2459.3	2403.2	2384.9	2373.3
15°	3096.0	3046.7	2933.2	2811.9	2683.4	2548.6	2433.7	2344.3	2276.2	2250.6	2243.8
17.5°	3165.0	3108.0	2972.3	2821.6	2655.4	2482.5	2341.9	2233.7	2158.8	2129.3	2128.4
20°	3250.1	3185.8	3022.1	2840.9	2627.4	2417.3	2250.6	2132.7	2055.9	2018.2	2011.5
22.5°	3348.1	3274.7	3089.7	2863.1	2604.2	2351.1	2164.1	2029.4	1950.6	1916.8	1909.1
25°	3451.5	3371.8	3170.8	2899.8	2583.9	2296.0	2083.0	1943.9	1862.7	1825.0	1817.3
27.5°	3580.5	3492.6	3266.5	2955.9	2573.8	2244.3	2013.4	1863.7	1781.5	1737.6	1734.7
30°	3725.4	3639.4	3394.0	3021.6	2577.6	2202.8	1953.5	1793.1	1704.3	1661.7	1651.1
32.5°	3878.0	3796.4	3529.3	3111.9	2587.8	2164.6	1892.6	1721.6	1628.9	1583.5	1576.7
35°	4047.1	3969.8	3672.3	3193.5	2592.6	2116.3	1821.2	1650.1	1555.5	1515.9	1508.1
37.5°	4228.7	4139.9	3818.6	3258.3	2580.0	2055.4	1751.1	1585.9	1495.1	1459.8	1455.5
40°	4404.1	4306.5	3936.5	3303.2	2558.8	1995.5	1689.3	1529.9	1449.7	1419.7	1414.4
42.5°	4558.2	4449.0	4026.8	3338.9	2535.6	1941.9	1638.1	1488.8	1417.8	1391.7	1386.9
45°	4700.7	4573.2	4116.2	3370.8	2513.4	1893.6	1599.9	1458.4	1392.7	1369.5	1366.6
47.5°	4814.7	4685.7	4188.2	3392.6	2482.0	1855.4	1565.6	1431.8	1373.4	1355.5	1354.0
50°	4928.2	4784.3	4249.5	3395.9	2447.2	1817.8	1535.7	1407.6	1356.0	1343.9	1343.9
52.5°	5028.2	4871.2	4292.5	3372.8	2398.4	1775.3	1498.9	1380.6	1335.7	1332.3	1333.3
55°	5126.3	4951.9	4303.6	3318.2	2341.9	1732.8	1458.4	1343.9	1304.3	1306.7	1308.6
57.5°	5207.9	4988.1	4272.7	3224.9	2273.8	1672.9	1403.3	1285.9	1240.0	1241.5	1245.8
60°	5254.3	4982.3	4195.9	3109.5	2176.2	1593.6	1321.7	1193.2	1127.5	1115.4	1121.7
62.5°	5278.9	4944.2	4066.0	2957.3	2061.7	1488.8	1191.2	1042.0	962.3	969.0	964.2
65°	5277.5	4876.1	3893.0	2772.3	1906.2	1316.8	1018.3	862.3	808.6	791.3	789.8
67.5°	5243.7	4747.6	3645.7	2515.8	1696.5	1096.6	811.5	687.9	633.3	631.4	625.1
70°	5114.2	4541.3	3311.9	2225.5	1395.1	819.8	619.8	518.3	469.5	409.6	407.2
71°	5024.4	4418.6	3117.2	2077.2	1259.3	724.6	545.9	463.7	387.9	315.9	315.9
72.5°	4759.6	4190.6	2848.6	1844.8	1026.5	592.7	450.7	372.4	264.2	247.8	248.8
75°	4132.6	3582.9	2330.8	1385.4	694.2	406.7	314.5	243.9	181.1	197.1	202.4
77.5°	3107.6	2735.1	1732.3	871.9	395.1	259.4	217.4	160.4	144.0	162.3	161.8
80°	1781.1	1698.5	1068.1	466.2	172.5	163.3	153.6	116.9	110.1	123.2	123.2
82.5°	876.3	941.5	583.5	173.9	79.2	95.2	98.5	81.6	76.8	83.1	85.0
85°	287.4	415.0	215.0	62.3	45.4	47.3	43.5	42.0	41.5	43.0	42.5
87.5°	41.5	74.9	30.9	24.2	18.8	16.4	13.5	12.6	10.6	9.2	8.7
90°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)